



Annual Review of
Plant Biology

Volume 60, 2009

Contents

My Journey From Horticulture to Plant Biology

- Jan A.D. Zeevaart* 1

Roles of Proteolysis in Plant Self-Incompatibility

- Yijing Zhang, Zhonghua Zhao, and Yongbiao Xue* 21

Epigenetic Regulation of Transposable Elements in Plants

- Damon Lisch* 43

14-3-3 and FHA Domains Mediate Phosphoprotein Interactions

- David Chevalier, Erin R. Morris, and John C. Walker* 67

Quantitative Genomics: Analyzing Intraspecific Variation Using

- Global Gene Expression Polymorphisms or eQTLs

- Dan Kliebenstein* 93

DNA Transfer from Organelles to the Nucleus: The Idiosyncratic

- Genetics of Endosymbiosis

- Tatjana Kleine, Uwe G. Maier, and Dario Leister* 115

The HSP90-SGT1 Chaperone Complex for NLR Immune Sensors

- Ken Shirasu* 139

Cellulosic Biofuels

- Andrew Carroll and Chris Somerville* 165

Jasmonate Passes Muster: A Receptor and Targets

- for the Defense Hormone

- John Browse* 183

Phloem Transport: Cellular Pathways and Molecular Trafficking

- Robert Turgeon and Shmuel Wolf* 207

Selaginella and 400 Million Years of Separation

- Jo Ann Banks* 223

Sensing and Responding to Excess Light

- Zhirong Li, Setsuko Wakao, Beat B. Fischer, and Krishna K. Niyogi* 239

Aquilegia: A New Model for Plant Development, Ecology, and

- Evolution

- Elena M. Kramer* 261

Environmental Effects on Spatial and Temporal Patterns of Leaf and Root Growth <i>Achim Walter, Wendy K. Silk, and Ulrich Schurr</i>	279
Short-Read Sequencing Technologies for Transcriptional Analyses <i>Stacey A. Simon, Jixian Zhai, Raja Sekhar Nandety, Kevin P. McCormick, Jia Zeng, Diego Mejia, and Blake C. Meyers</i>	305
Biosynthesis of Plant Isoprenoids: Perspectives for Microbial Engineering <i>James Kirby and Jay D. Keasling</i>	335
The Circadian System in Higher Plants <i>Stacey L. Harmer</i>	357
A Renaissance of Elicitors: Perception of Microbe-Associated Molecular Patterns and Danger Signals by Pattern-Recognition Receptors <i>Thomas Boller and Georg Felix</i>	379
Signal Transduction in Responses to UV-B Radiation <i>Gareth I. Jenkins</i>	407
Bias in Plant Gene Content Following Different Sorts of Duplication: Tandem, Whole-Genome, Segmental, or by Transposition <i>Michael Freeling</i>	433
Photorespiratory Metabolism: Genes, Mutants, Energetics, and Redox Signaling <i>Christine H. Foyer, Arnold Bloom, Guillaume Queval, and Graham Noctor</i>	455
Roles of Plant Small RNAs in Biotic Stress Responses <i>Virginia Ruiz-Ferrer and Olivier Voinnet</i>	485
Genetically Engineered Plants and Foods: A Scientist's Analysis of the Issues (Part II) <i>Peggy G. Lemaux</i>	511
The Role of Hybridization in Plant Speciation <i>Pamela S. Soltis and Douglas E. Soltis</i>	561
Indexes	
Cumulative Index of Contributing Authors, Volumes 50–60	589
Cumulative Index of Chapter Titles, Volumes 50–60	594
Errata	
An online log of corrections to <i>Annual Review of Plant Biology</i> articles may be found at http://plant.annualreviews.org/	

